

Claims:

1. A mobile communication device comprising:
a memory;
a card interface to a card having at least an
encryption key generator therein, wherein the encryption key
5 generator generates an encryption key using a predetermined
code; and

a processor performing encryption of data to be
stored into the memory and decryption of encrypted data stored
in the memory, using the encryption key received from the card.

10 2. The mobile communication device according to claim
1, wherein the encryption key generator generates the encryption
key by using the predetermined code and a random number generated
according to a predetermined algorithm.

15 3. The mobile communication device according to claim
1, wherein the encryption key generator generates the encryption
key by using the predetermined code and a previously stored key
that has been stored as secret information in the card.

20 4. The mobile communication device according to claim
1, wherein the predetermined code is an identification code that
has been assigned to the card.

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5. The mobile communication device according to claim 1, wherein the predetermined code is a group code that has been assigned to the card, wherein the group code is shared in a predetermined group.

5 6. The mobile communication device according to claim 1, wherein the card interface detachably connects the card to the mobile communication device.

7. The mobile communication device according to claim 1, wherein the memory is a flash memory.

10 8. The mobile communication device according to claim 7, wherein the flash memory is built in the mobile communication device.

9. The mobile communication device according to claim 7, wherein the flash memory is a flash memory card,
15 the mobile communication device further comprising:
a memory card interface for detachably connecting the flash memory card to the mobile communication device.

10. The mobile communication device according to claim 1, wherein the memory is an external memory,

20 the mobile communication device further comprising:

an external memory interface for detachably connecting the external memory to the mobile communication device.

11. The mobile communication device according to claim

5 1, further comprising:

an external memory interface for detachably connecting an external memory to the mobile communication device, allowing data exchange with the external memory,

10 wherein the processor performs encryption of data to be stored in the external memory and decryption of encrypted data stored in the external memory, using the encryption key received from the card.

12. A data concealing method in a mobile communication device comprising:

15 a memory; and

a card interface to a card having an IC (integrated circuit) chip therein,

the method comprising the steps of:

20 instructing the card to generate an encryption key using a predetermined code that is previously stored in the card; and

performing encryption of data to be stored in the memory and decryption of encrypted data stored in the memory, using the encryption key received from the card.

13. The method according to claim 12, wherein the encryption key is generated by using the predetermined code and a random number generated according to a predetermined algorithm.

5 14. The method according to claim 12, wherein the encryption key is generated by using the predetermined code and a previously stored key that has been stored as secret information in the card.

10 15. The method according to claim 12, wherein the predetermined code is an identification code that has been assigned to the card.

16. The method according to claim 12, wherein the predetermined code is a group code that has been assigned to the card, wherein the group code is shared in a predetermined
15 group.

17. The method according to claim 16, wherein the group code is an identification code of a company that provides a predetermined service to the mobile communication device.

18. The method according to claim 16, wherein the group
20 code is an identification code of a company that produces

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